

Amendments to the Specification:

Please replace the paragraph beginning on page 3, line 18 through page 4, line 3 with the following amended paragraph:

Referring now to Figure 1 of the drawings, a wearable garment 2 in accordance with this invention includes an electrical interconnect device 12 and a connector 16. The connector 16 comprises a cable extending from the interconnect device 12, with the cable being coupled to a power source or other external electronic device 14. In the embodiment illustrated in Figure 1, the wearable garment 2 has the form of a conventional sleeveless top shirt, although it will be understood readily that the shirt alternatively may be either long-sleeved, short-sleeved, vest, or jacket, for example. In addition, the materials of garment 2 may be either natural or synthetic, and the fabric created from such materials can be either woven or sheet-formed in any well-known manner.

Please replace the paragraph on page 4, lines 4-19 with the following amended paragraph:

Referring to Figure 2, one side of the garment 2 is provided with the electrical interconnect system 12, which includes an opening 10 defined by an outer ring 11 having one or more conductive area (11a) at both ends thereof. The provision of the opening 10 to the fabric is well known to the skilled person, as are variations in such attachment detail. The outer ring 11 is electrically coupled to a conductive track of a fabric circuit 4, which may be provided in the form of loops to receive or otherwise engage equipment considered ancillary to the interconnect system 12, such as an external heart-monitoring device, external defibrillator, or other electronic devices. Alternatively, such ancillary equipment or other electronic devices may be integrated in the garment 2 and used in conjunction with the interconnect system 12 for transmitting the desired signals or power in any well-known manner.

Please replace the paragraph beginning on page 4, line 20 through page 5, line 22 with the following amended paragraphs (note that a carriage return has been inserted between the paragraphs):

Referring to Figure 3, the connector 16 that allows the connection of a power supply or an external electronic device as described above comprises a button connector 40 having one or more conductive surfaces 40a that may be electrically coupled to the conductive areas (11a) of the outer ring 11 (See Figure 2) for transmitting signals or power. As shown, the button connector 40 has a shape adapted to interconnect releasably the respective conductive areas physically and electrically with each other. Accordingly, a wearer can engage an ancillary device readily by merely mounting the button connector 40 with one hand to the proper opening 10 of the garment 2. It will be understood readily by those having skill in this art, that in this embodiment of the invention, any connecting cable 16 extending from the button connector 40 can be coupled without difficulty to an ancillary device such as a cell phone, radio, pager, GPS device, personal communication assistant, or other signal transmitter or duplex interactive system, carried anywhere on the person of the wearer of the band.

Figure 4 illustrates the electrical interconnect system 12 according to another embodiment of this invention. As shown, one side of the garment 2 is provided with a button component 20 having one or more conductive area 20a. The conductive area 20a of the button component 20 is electrically coupled to a conductive track of a fabric circuit 4. It is noted that the button component 20 in proper position on garment 2 formed by ordinary garment materials can be accomplished easily using well-known sewing and or other fabric-attachment techniques. The materials of such garment may be either natural or synthetic, and the fabric created from such materials may be either woven or sheet-formed in any well-known manner.

Please replace the paragraph beginning on page 5, line 23 through page 6, line 5 with the following amended paragraph:

Referring to Figure 5, the button component 20 may be joined together with the outer ring 11 having conductive areas (11a) with a releasable locking action by the wearer. In this embodiment, a wearer can engage the interconnect system 12 readily by merely fastening the button connector 20 of a first layer 21 of the garment 2 to the outer ring 12 11 of a second layer 22 of the garment 2. The two layers joined together can be made to be water-resistant or waterproof in the area forming the interconnect system 12 to provide additional protection.